

Joseph P. Alcala

437 Asbury Rd. Rio Rancho, NM 87124
(505)891-0268

Objective Seeking a position as an Electronic / Mechanical Technician.

Education Certificate from TV-I in Instrumentation and Control Technology (1986).
Honors: Dean's List (GPA : 4.0 1st and 2nd trimester, and 3.94 3rd trimester)

Employment Experience **Jaycor**, 12/86 to 9/97 (505) 344-7455
Senior Electronic / Mechanical Technician
Assisted in the design, fabrication, and integration of complex computer controlled instrumentation. Designed and manufactured a high voltage bake out station for high power magnetrons. Assisted in the design and fabrication of high power magnetrons. Built and serviced high voltage power supplies. Instrumented automated data acquisition racks for underground nuclear test in Nevada, in the late 80's. Assisted in the development of a Hydrogen braze oven for the production of high power magnetrons. Provided all logistics involved for projects, to include research and inquiries for materials, equipment, and electronic components. Worked closely with Engineers and Scientist on projects from the beginning to the end of a project. Conducted many field demonstrations of complex systems to prove a new technology.

Comforce, 9/97 to present (505) 889-3535
Electronic / Mechanical Technician
Los Alamos National Labs, NIS-2, MTI (Multispectral Thermal Imager)
Assisted in the assembly of an automated radiometric calibration test bed for satellites. Assembled many of the mechanical subsystems and modified when necessary. Designed a cooling booster pump to provide adequate pressure and flow to equipment. Designed and installed an automatic change over gas system for delivery into clean room. Designed brackets and parts for integration. Assisted in the integration of facility, control, and hardware. Assisted in the dissemination of information via a web page so that other group members could access the information from anywhere at any time. Assisted in publishing a Hazard Control Plan for the safe operation of the experiment. Assisted in the data collection, and calibration of equipment. Received Contract Achievement Award (September 23, 1998)

Special Skills Experienced in AutoCad, and Cadkey to design and detail for fabrication
Knowledge of fittings, valves, and tubing.
Knowledge of vacuum pumps, valves, and safety.
Experienced in AC power distribution systems.
Knowledge in EMI/RFI shielding of electronic equipment.
Working knowledge of cryogenic systems.
Installed pressurized gas systems, flammable and inert.
Designed and built several liquid cooling systems.
Experienced with clean room equipment and procedures.
Trouble shooting electronics down to the component level.
Interfacing electronic equipment to mechanical devices.
Logistics and purchasing.
Integrating electronic and mechanical systems.
Communicating complex ideas and problems to design staff.
Familiar with Microsoft Office and Windows NT.
Familiar with PC networks.
Machining, milling, lath, and general shop equipment.

Military USMC Reserve from 6/85 to present, Desert Storm Veteran

References Available upon request.